

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN02/00922

A. CLASSIFICATION OF SUBJECT MATTER

F24F 3/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F24F 3/16, A61L 9/00, 9/16, 9/20, B01J 35/02, 35/00, B01J 21/06, B01D 53/86

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPOQUE, PAJ, WPI, CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Δ	CN,U, 2114787 (Lanzhou Chem-physics Institute, China Academy of Sciences) 02. Sep. 1992 (02.09.92) whole document	1-5
Δ	JP,A,11-253545 (AIWA CO) 21. Sep. 1999 (21.09.99) whole document	1-5
Δ	CN,Y,2508848 (Li Yan) 04. Sep. 2002 (04.09.02) whole document	1-5
Δ	CN,Y,2333944 (Chemical Fertilizer and Catalyzer Centre, Fuzhou University) 18. Aug 1999 (18.08.99) whole document	1-5
Δ	CN,Y,2396820 (Li Zhijin) 20.Sep. 2000 (20.09.00) whole document	1-5
Δ	CN,Y,2164518 (Xiahui Electric Appliance Factory, Mei county, Shanxi) 11. May 1994 (11.05.94) whole document	1-5

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
“A” document defining the general state of the art which is not considered to be of particular relevance	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“E” earlier application or patent but published on or after the international filing date	“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
“L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family
“P” document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 15. Jan. 2003 (15.01.03)	Date of mailing of the international search report 06 MAR 2003 (06.03.03)
Name and mailing address of the ISA/CN 6 Xitucheng Rd., Jilin Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer Xu Niankang Telephone No. 86-10-62093963 

国际检索报告

国际申请号

PCT/CN02/00922

A. 主题的分类

F24F 3/16

按照国际专利分类表(IPC)或者同时按照国家分类和 IPC 两种分类

B. 检索领域

检索的最低限度文献(标明分类体系和分类号)

F24F 3/16, A61L 9/00, 9/16, 9/20, B01J 35/02, 35/00, B01J 21/06, B01D 53/86

包含在检索领域中的除最低限度文献以外的检索文献

中国专利文献

在国际检索时查阅的电子数据库(数据库的名称和, 如果实际可行的, 使用的检索词)

EPOQUE, PAJ, WPI, CNPAT

C. 相关文件

类型*	引用文件, 必要时, 指明相关段落	相关的权利要求编号
A	CN,U, 2114787 (中国科学院兰州化学物理研究所) 02.9月 1992 (02.09.92)全文	1-5
A	JP,A,11-253545 (AIWA 株式会社) 21.9月 1999 (21.09.99) 全文	1-5
A	CN,Y, 2508848 (李彦) 04.9月 2002 (04.09.02) 全文	1-5
A	CN,Y,2333944 (福州大学化肥催化剂国家工程研究中心) 18.8月.1999 (18.08.99)全文	1-5
A	CN,Y,2396820 (李植晋) 20.9月 2000 (20.09.00) 全文	1-5
A	CN,Y,2164518 (陕西省眉县夏汇电器厂) 11.5月 1994 (11.05.94) 全文	1-5

 其余文件在 C 栏的续页中列出。 见同族专利附件。

* 引用文件的专用类型:

"A" 明确叙述了被认为不是特别相关的一般现有技术的文件

"E" 在国际申请日的当天或之后公布的在先的申请或专利

"L" 可能引起对优先权要求的怀疑的文件, 为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件

"O" 涉及口头公开、使用、展览或其他方式公开的文件

"P" 公布日先于国际申请日但迟于所要求的优先权日的文件

"T" 在申请日或优先权日之后公布的在后文件, 它与申请不相抵触, 但是引用它是为了理解构成发明基础的理论或原理

"X" 特别相关的文件, 仅仅考虑该文件, 权利要求所记载的发明就不能认为是新颖的或不能认为是有创造性

"Y" 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 权利要求记载的发明不具有创造性

"%" 同族专利成员的文件

国际检索实际完成的日期

15.1月 2003 (15.01.03)

国际检索报告邮寄日期

06.3月 2003 (06.03.03)

国际检索单位名称和邮寄地址

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传真号: 86-10-62019451

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